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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/27/2008

CRAIG W. RODDY HALLIBURTON ENERGY SERVICES GROUP 2600 SOUTH SECOND STREET, Mail Drop 0440 DUNCAN, OK 73536

| EXAMINER | | | | |
|------------------|--------------|--|--|--|
| KUGEL, TIMOTHY J | | | | |
| ART UNIT | PAPER NUMBER | | | |
| 1796 | | | | |

DATE MAILED: 08/27/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|----------------------|------------------|
| 10/721,055 | 11/24/2003 | Krishna M. Ravi | HES 2002-IP-008094U2 | 3248 |

TITLE OF INVENTION: METHODS OF DRILLING WELLBORES USING VARIABLE DENSITY FLUIDS COMPRISING COATED ELASTIC

PARTICLES

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$300 | \$0 | \$1740 | 11/28/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or Fax (571)-273-2885

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| appropriate. All further | correspondence includired below or directed oth | g the Patent, advance of | rders and notification of n | naintenance fees wi | ill be mailed to the curren | should be completed where t correspondence address as parate "FEE ADDRESS" for | |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | Note Fee(pape have | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | |
| 2600 SOUTH SE | N ENERGY SERVI ECOND STREET, I | CES GROUP | I he | Certify that this | ificate of Mailing or Trans | | |
| DUNCAN, OK | /3536 | | | | | (Depositor's name) | |
| | | | | | | (Signature) | |
| | | | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
| 10/721,055 TITLE OF INVENTION PARTICLES | 11/24/2003 N: METHODS OF DR | ILLING WELLBORES | Krishna M. Ravi USING VARIABLE DE | | HES 2002-IP-008094U2 COMPRISING COATED | 3248 ELASTIC | |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE | FEE TOTAL FEE(S) DUE | E DATE DUE | |
| nonprovisional | NO | \$1440 | \$300 | \$0 | \$1740 | 11/28/2008 | |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | | | | |
| KUGEL, TI | МОТНҮ Ј | 1796 | 507-125000 | | | | |
| "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha 3/122) attached. ication (or "Fee Address' 2 or more recent) attach ND RESIDENCE DATA ess an assignee is identin in 37 CFR 3.11. Comp | nge of Correspondence Indication form ed. Use of a Customer TO BE PRINTED ON | 2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or type data will appear on the patent attoolisted). The patent of the patent will appear on the patent appear on the patent of the pa | 3 registered patent vely, e firm (having as a gent) and the name rneys or agents. If n printed. be) atent. If an assigne assignment. | attorneys 1 member a 2 s of up to to name is 3 e is identified below, the of | document has been filed for | |
| Please check the appropri | | | | | | coup entity Government | |
| 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | |
| 5. Change in Entity Stat | t <mark>us</mark> (from status indicated s SMALL ENTITY statu | | □ h Applicant is no lone | ran alaimina SMAL | L ENTITY status. See 37 C | PED 1 27(~)/2) | |
| | d Publication Fee (if requ | ired) will not be accepte | d from anyone other than the | - | | the assignee or other party in | |
| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | | Registration No | 0 | | |
| This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR | on is required to obtain or r 1.14. This collection is est 7 depending upon the indiv 10 depending upon the collection office 11 dependent of the complex to the complex to the collection of th | etain a benefit by th imated to take 12 m idual case. Any cor r, U.S. Patent and T D THIS ADDRESS. | ne public which is to file (an inutes to complete, includi mments on the amount of the trademark Office, U.S. Dep. SEND TO: Commissioner | nd by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450, | |

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| APPLICATION NO. FILING DATE FIRST NAME | D INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. |
|--|---|
| 10/721,055 11/24/2003 Krishna | M. Ravi HES 2002-IP-008094U2 3248 |
| 7590 08/27/2008 | EXAMINER |
| CRAIG W. RODDY | KUGEL, TIMOTHY J |
| HALLIBURTON ENERGY SERVICES GROUP | ART UNIT PAPER NUMBER |
| 2600 SOUTH SECOND STREET, Mail Drop 0440 DUNCAN, OK 73536 | 1796 DATE MAILED: 08/27/2008 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 216 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 216 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|--|---|---|---------------------------|--|--|
| | 10/721,055 | RAVI ET AL. | | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | Timothy I Kugol | 1706 | | | |
| | Timothy J. Kugel | 1796 | | | |
| The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in or other appropriate commul GHTS. This application is so | this application. If not include nication will be mailed in due | ed course. THIS | | |
| 1. \boxtimes This communication is responsive to <u>the amendment after</u> | non-final rejection filed 8 Jul | <u>y 2008</u> . | | | |
| 2. \boxtimes The allowed claim(s) is/are $\underline{1,6-22,24-29,36-47,50-59,88}$ and | <u>nd 89</u> . | | | | |
| 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents | been received. been received in Application | n No | tion from the | | |
| International Bureau (PCT Rule 17.2(a)). | | The the hadden dags approa | | | |
| * Certified copies not received: | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | a reply complying with the red | quirements | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | OTICE OF | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | | | |
| (a) including changes required by the Notice of Draftspers | on's Patent Drawing Review | (PTO-948) attached | | | |
| 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date | | | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment or | in the Office action of | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | | back) of | | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | | | |
| | | | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), | 6. ☐ Interview Su Paper No./I 7. ☑ Examiner's / | formal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo | owance | | |
| | | | | | |

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 04/22/2008 and 07/14/2008.

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DETAILED ACTION

1. Claims 1, 6-22, 24-29, 36-47, 50-59, 88 and 89 are pending as amended on 8 July 2008, claims 2-5, 23, 30-35, 48, 49 and 60-87 being cancelled.

- 2. The text of those sections of Title 35, US Code not included in this action can be found in a prior Office action.
- 3. Please note that claim 41 carries the status identifier 'Currently Amended', but there has apparently been no amendment to the claim. As a courtesy to applicant and in the interest of compact prosecution, claim 41 was construed to carry the status identifier 'Previously Presented'.

Information Disclosure Statement

4. Regarding the crossed-out reference JP 6-228468, the information disclosure statement filed 14 July 2008 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered. Otherwise, the information disclosure statements submitted on 22 April 2008 and 14 July 2008 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner has considered the information disclosure statements.

Response to Amendment

5. Applicant's amendment, filed 8 July 2008, specifically the importation of the subject matter of claims 32 and 33, previously indicated as allowable, into the independent claims, has been fully considered and overcomes the following:

The rejection of claims 1, 6, 7, 11-22, 24-29, 40, 41, 43-47, 51-59, 88 and 89 under 35 USC 102(e) as being anticipated by US Patent Application Publication 2004/0144537 (Reddy hereinafter) has been withdrawn.

The rejection of claims 1, 6-11, 13, 14, 17, 18, 24, 26-31, 34, 36-39, 41-44, 46-47, 50-52, 54-56, 58, 88 and 89 under 35 USC § 103(a) as being unpatentable over US Patent 3,256,936 (Johnson hereinafter) in view of US Patent 3,145,773 (Jorda hereinafter) has been withdrawn.

The rejection of claims 8-10, 34, 36-39 and 42 under 35 USC § 103(a) as being unpatentable over Johnson in view of Reddy has been withdrawn.

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows, please change the title to:

"Methods of drilling wellbores using variable density fluids comprising coated elastic particles"

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7. Authorization for this examiner's amendment was given in a telephone

interview with Carey C. Jordan on 19 August 2008.

The application has been amended as follows, please amend claim 10 as

follows:

10. (Currently Amended) The method of claim 8 wherein the borehole comprises

strings of casings, wherein a substantial majority of the strings are made from a similar

the same piping schedule

Allowable Subject Matter

8. Claims 1, 6-22, 24-29, 36-47, 50-59, 88 and 89 are allowed.

The following is an examiner's statement of reasons for allowance: None of

Reddy, Johnson nor Jorda, the closest prior art, teaches or fairly suggests a particle

coating comprising a material as instantly claimed.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Timothy J. Kugel whose telephone number is (571) 272-

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1460. The examiner can normally be reached on 6:00 AM - 4:30 PM Monday -

Thursday.

273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-

10. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy J. Kugel/ Patent Examiner, AU 1796